Manganese, pentacarbonylmethyl-

Other names:	Manganese, pentacarbonylmethyl-, (OC-6-21)-
	Methyl pentacarbonylmanganese
	Methylmanganese pentacarbonyl
	Pentacarbonylmethylmanganese
	CH3(CO)5Mn
Inchi:	InChI=1S/5CO.CH3.Mn/c5*1-2;;/h;;;;;1H3;
InchiKey:	KJJLHDHVFFAISC-UHFFFAOYSA-N
Formula:	C6H3MnO5
SMILES:	[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[C-]#[O+].[CH3].[Mn]
Mol. weight [g/mol]:	210.02
CAS:	13601-24-6

Physical Properties

Property code	Value	Unit	Source
affp	764.40	kJ/mol	NIST Webbook
basg	735.40	kJ/mol	NIST Webbook
hf	-756.00 ± 6.00	kJ/mol	NIST Webbook
hf	-750.90 ± 4.10	kJ/mol	NIST Webbook
hfs	-811.20 ± 3.70	kJ/mol	NIST Webbook
hfs	-816.00 ± 6.00	kJ/mol	NIST Webbook
hsub	60.30 ± 1.70	kJ/mol	NIST Webbook
ie	8.65	eV	NIST Webbook
ie	8.46	eV	NIST Webbook
ie	8.40	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	60.20	kJ/mol	348.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13601246&Units=SI

Legend

affp:	Proton affinity
basg:	Gas basicity
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
ie:	Ionization energy